

## **ABSTRACT**

**A wing mechanism for the utilization of aerodynamic downward forces to a vehicle with adjustability in height and angle. The wing mechanism comprises of a four bar linkage system whereby motion is transmitted from an interiorly mounted electric motor to a worm gear transferring unit, thusly raising and lowering the linkage system of the wing mechanism. Angular adjustment of the wing member comprises of linear actuators which creates pivotal movement of the wing member indirectly to the vertical movement of the linkage system.**